

# Operation Principle

## Multi-function GPS Portable Navigation Device-84A

1. BlueTooth
  - a. BC04 ROM
  - b. Communication interface: UART
  - c. Frequency: 2402-2480MHz
  - d. 26MHz crystal
  - e. Power supply:3.3V
  - f. Built-in high-performance 2.4GHz chip antennas.
2. GPS
  - a. 64-channel GPS baseband with hardware match filter
  - b. Operating Frequency : 1575.42MHz
  - c. 12MHz and 32.768MHz crystal Frequency.
  - d. Power supply:3.3V
  - e. Built-in ceramic antenna
3. FM
  - a. Frequency Range : 88.1MHz ~ 107.9MHz
  - b. MCU control IIC to set FM frequency
  - c. 15.2MHz crystal Frequency
  - d. Power supply:3.3V
  - e. FM antenna is Built-in antenna
4. CODEC
  - a. Mic input: High sensitivity Differential input
  - b. Sound Output: 1.3W BTL Speaker and stereo Headphone Output, Sounds To FM\_Audio
  - c. Power supply:3.3V and 5V
  - d. MCU control IIC and Support the IIS/PCM Interface for stereo audio
5. AV
  - a. Accepts NTSC,PAL Video Data
  - b. Power supply:3.3V and 1.8V
  - c. MCU control IIC and converts NTSC and PAL video signals to 8-bit ITU-R BT.656 format.
  - d. video insert detection